GROUP 34

REAR SUSPENSION

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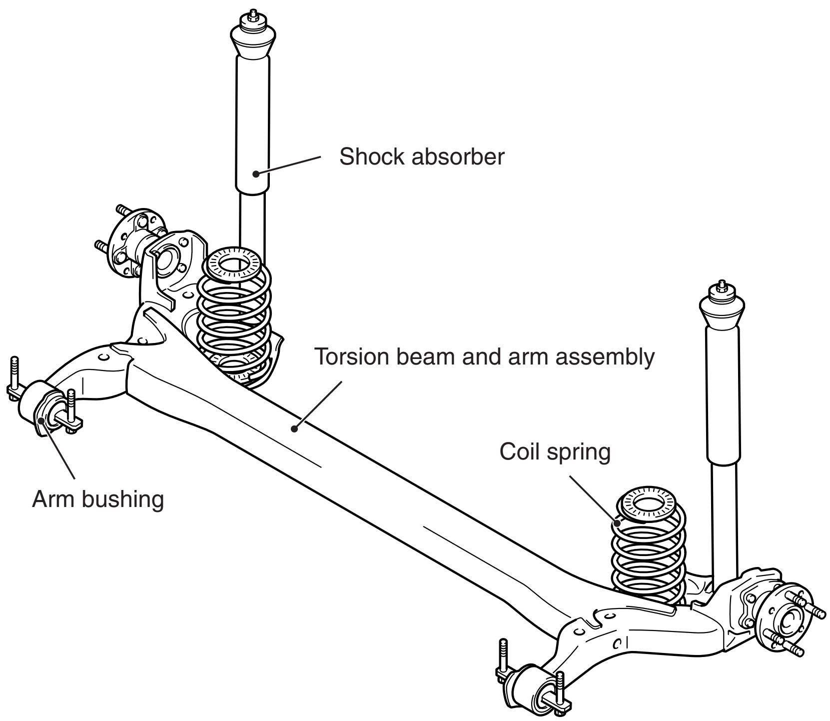
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GENERAL INFORMATION

M1341000100944

A H-shaped torsion beam suspension has been adopted as the rear suspension. The shock absorber is a hydraulic, cylindrical double-acting type.

CONSTRUCTION DIAGRAM



AC206930AC

SPECIFICATION

COIL SPRING

Item	4A9	4G1
Wire diameter mm	10	11
Average outside diameter mm	75 – 107 – 75	111
Free length mm	301	283

SERVICE SPECIFICATIONS

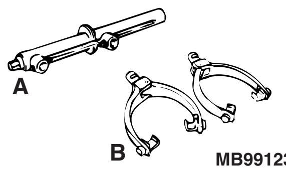
M1341000300517

Item		Standard value
Camber		–1°00' ± 0°45' *
Toe-in	At the centre of tyre tread mm	3 ± 3
	Toe-angle (per wheel)	0°09' ± 0°09'
Thrust angle		0°00' ± 0°15'

*NOTE: *: Difference between right and left wheels must be less than 30'*

SPECIAL TOOLS

M1341000600507

Tool	Number	Name	Use
	A: MB991237 B: MB991239	A: Spring compressor body B: Arm set	Coil spring compressing

ON-VEHICLE SERVICE

REAR WHEEL ALIGNMENT CHECK AND ADJUSTMENT

M1341011000543

Measure wheel alignment with an alignment equipment on level earth.
The rear suspension, wheels, and tyres should be serviced to the normal condition prior to wheel alignment measurement.

TOE-IN

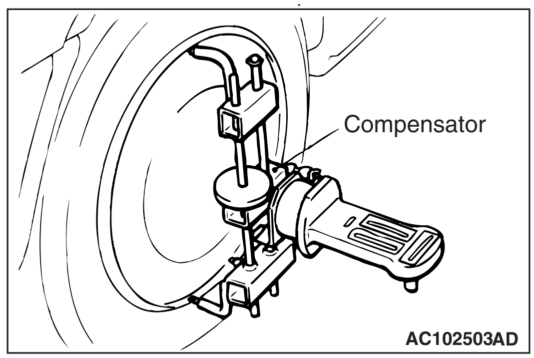
Standard value:
At the centre of tyre tread: 3 ± 3 mm
Toe angle (per wheel): 0°09' ± 0°09'

NOTE: The toe-in is pre-adjusted at factory and is not adjustable.

CAMBER

Standard value: − 1°00' ± 0°45'

NOTE:
- *The difference between right and left wheels must be less than 30'*

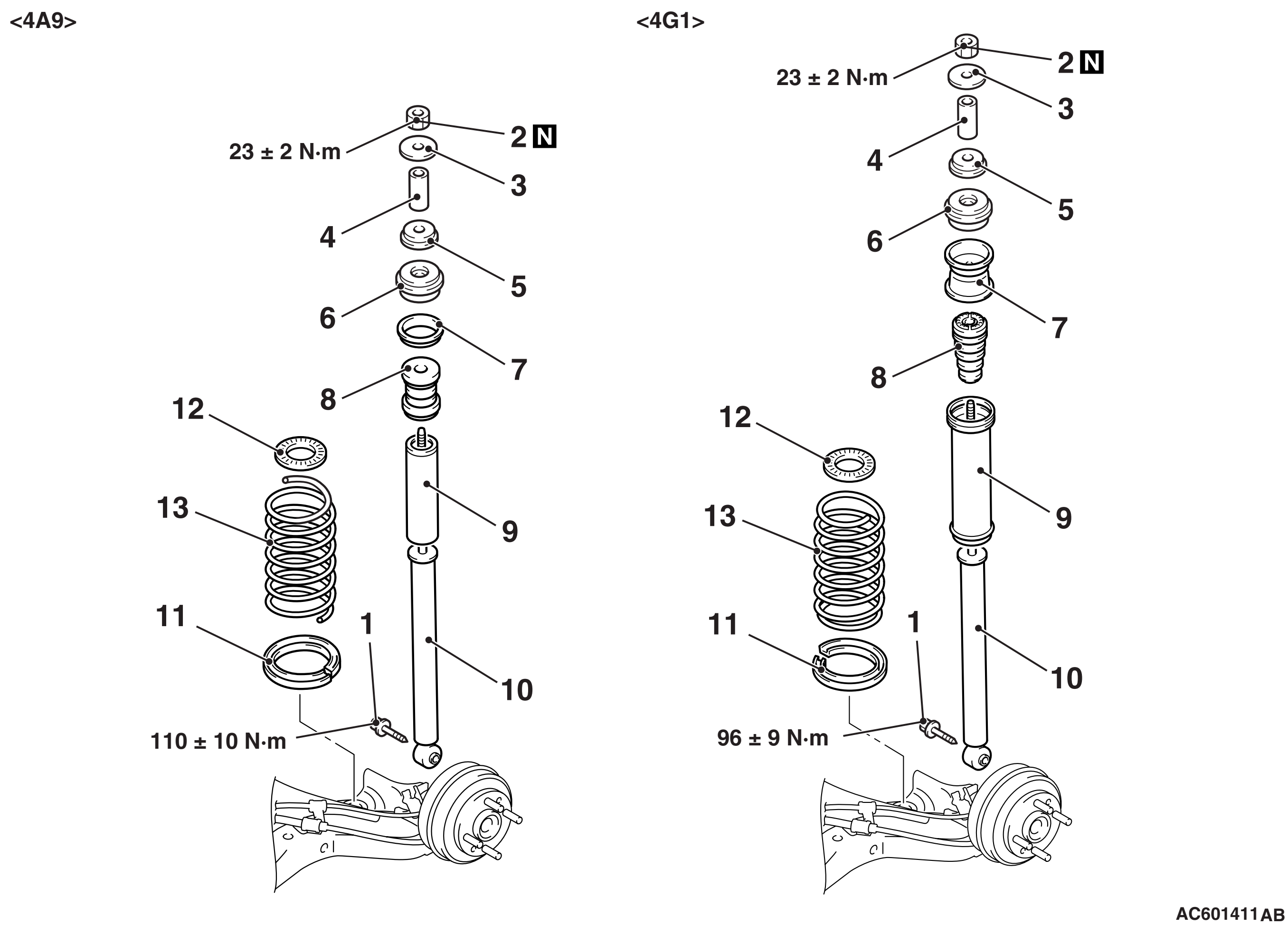


For vehicles with aluminium wheel, we recommend that a compensator be used to measure the camber and caster.
- *The camber is pre-adjusted at factory and is not adjustable.*

SHOCK ABSORBER AND COIL SPRING

REMOVAL AND INSTALLATION

M1341016300185



Removal steps

<<**A**>>		1.	Bolt (Securing the shock absorber assembly to the torsion axle arm assembly)
		•	Quarter trim cap removal and installation (Refer to GROUP 52A, Interior Trim P.52A-11).
		2.	Self-locking nut
		3.	Washer
		4.	Collar

Removal steps (Continued)

		5.	Upper bushing
		6.	Lower bushing
		7.	Cup
		8.	Bump rubber
		9.	Dust cover
		10.	Shock absorber assembly
<<**B**>>	>>**A**<<	11.	Lower spring pad
<<**B**>>	>>**A**<<	12.	Upper spring pad
<<**B**>>	>>**B**<<	13.	Coil spring

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REMOVAL SERVICE POINTS

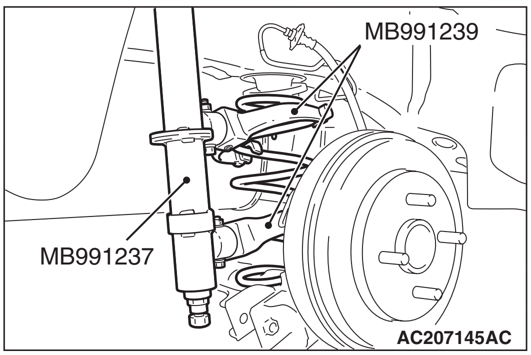
<<A>> BOLT REMOVAL

Jack up and support the torsion axle arm assembly, and remove the bolt.

<<B>> LOWER SPRING PAD/UPPER SPRING PAD/COIL SPRING REMOVAL

⚠ CAUTION

- **Install special tool arm set (MB991238) evenly, and so that the maximum length will be attained within the installation range.**
- **Do not use an impact wrench to tighten the bolt of special tool spring compressor body (MB991237), otherwise the special tool will break.**



AC207145AC

Install the following special tools as shown. Compress the coil spring to remove the lower spring pad, the upper spring pad and the coil spring.

- Spring compressor body (MB991237)
- Arm set (MB991239)

INSTALLATION SERVICE POINTS

>>A<< REAR SUSPENSION LOWER SPRING PAD AND REAR SUSPENSION UPPER SPRING PAD INSTALLATION

Fit the lower pad and the upper pad into the coil spring ends.

>>B<< COIL SPRING INSTALLATION

The lower end of the coil spring should be position 90° anti-clockwise away from the vehicle front direction.

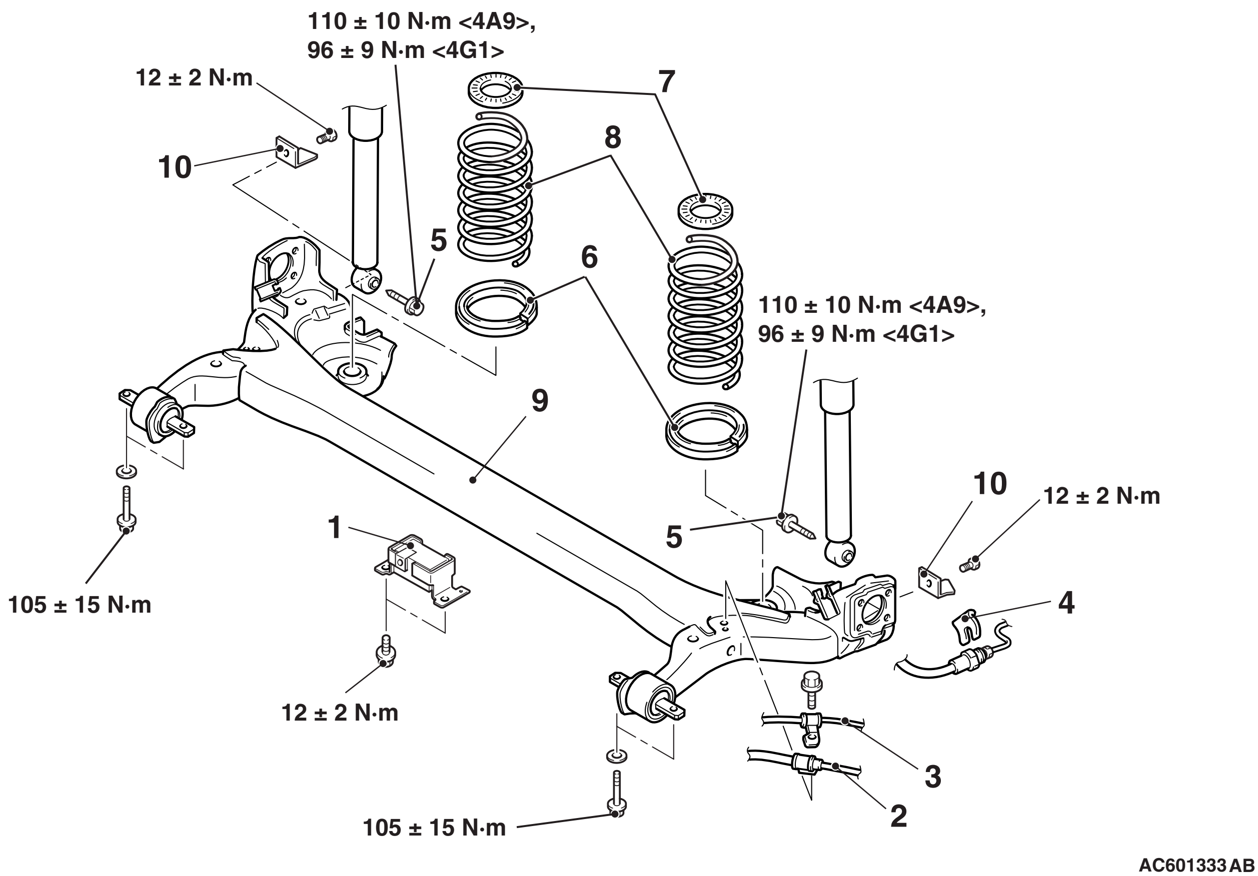
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TORSION AXLE ARM ASSEMBLY

REMOVAL AND INSTALLATION

M1341016500219

Pre-removal Operation	Post-installation Operation
• Backing Plate (Refer to GROUP 35A, Rear Drum Brake P.35A-50).	• Backing Plate (Refer to GROUP 35A, Rear Drum Brake P.35A-50). • Parking Brake Pedal Stroke Adjustment (Refer to GROUP 36, On-vehicle Service − Parking Brake Pedal Stroke Check and Adjustment P.36-4). <4G9-CVT> • Parking Brake Lever Stroke Adjustment (Refer to GROUP 36, On-vehicle Service − Parking Brake Lever Stroke Check and Adjustment).<4G9-M/T, 4G1>



Removal steps

1. Dynamic damper <4A9>
- Rear hub assembly (Refer to GROUP 27, Rear Axle Hub Assembly P.27-6).
2. Parking brake cable
3. Rear wheel speed sensor
4. Brake hose clamp
5. Bolt (Securing the shock absorber assembly to the torsion axle arm assembly)

>>B<< 6. Lower spring pad
>>B<< 7. Upper spring pad
>>A<< 8. Coil spring
9. Torsion axle arm assembly
10. Scraper plate

INSTALLATION SERVICE POINTS

>>A<< COIL SPRING INSTALLATION

The lower end of the coil spring should be position 90° anti-clockwise away from the vehicle front direction.

>>B<< UPPER SPRING PAD/LOWER SPRING PAD INSTALLATION

Fit the lower spring pad and the upper spring pad into the coil spring ends.

INSPECTION

M1341015500142

- Check the rubber parts for cracks and wear.
- Check the shock absorber for malfunction, oil leakage, or abnormal noise.